List of Journals

In this document, I have prepared a list of some high ranking statistics and statistics-adjacent journals along with their Aims and Scope. This list is not comprehensive.

List of ASA journals

General Journals

- JASA
  - "Articles focus on statistical applications, theory, and methods throughout all disciplines that make use of data, including economic, social, biological, physical, engineering, and health sciences and the humanities."
  - Would be under "Theory and Methods"; "Theory and Methods section publishes articles that make original contributions to the foundations, theoretical development, and **methodology of statistics** and probability"
    - "Authors are reminded that the *Journal of the American Statistical Association* is the flagship publication of the American Statistical Association. As such, it seeks to publish substantive articles that are likely to have broad impact on theory, methodology, and practice of statistical science. For this reason, shorter contributions or more narrowly focused contributions, while of considerable merit in their own right, may be inappropriate for the Theory and Methods."
- New England Journal of Statistics in Data Science
  - The aims of the journal are to serve as an interface between statistics and other disciplines in data science, to encourage researchers to exchange innovative ideas, and to promote data science methods to the general scientific community. The journal publishes high quality original research, novel applications, and timely review articles in all aspects of data science, including (but not limited to) all areas of statistical methodology, methods of machine learning, and artificial intelligence, novel algorithms, computational methods, data management and manipulation, applications of data science methods, among others. We encourage authors to submit collaborative work driven by real life problems posed by researchers, administrators, educators, or other stakeholders, and which require original and innovative solutions from data scientists.
- Bayesian Analysis
  - *Bayesian Analysis* is an electronic journal of the International Society for Bayesian Analysis. It seeks to publish a wide range of articles that demonstrate or discuss Bayesian methods in some theoretical or applied context. The journal welcomes

submissions involving presentation of new computational and statistical methods; critical reviews and discussions of existing approaches; historical perspectives; description of important scientific or policy application areas; case studies; and methods for experimental design, data collection, data sharing, or data mining.

- Statistics Sinica
  - *Statistica Sinica* aims to meet the needs of statisticians and data scientists in a rapidly changing world. It provides a forum for publishing innovative work of high quality in all areas of statistics and data science, including theory, methodology, and applications. The journal encourages the development and principled use of statistical methodologies relevant to society, science, and technology.
- Journal of Time Series Analysis
  - During the last 30 years Time Series Analysis has become one of the most important and widely used branches of Mathematical Statistics. Its fields of application range from neurophysiology to astrophysics and it covers such well-known areas as economic forecasting, study of biological data, control systems, signal processing and communications and vibrations engineering.
  - The *Journal of Time Series Analysis* started in 1980, has since become the leading journal in its field, publishing papers on both fundamental theory and applications, as well as review papers dealing with recent advances in major areas of the subject and short communications on theoretical developments. The editorial board consists of many of the world's leading experts in Time Series Analysis.
- Journal of the Royal Statistical Society: Series A Statistics in Society (JRSS: Series A)
  - *Series A* looks at how innovative statistical thinking, design, methods, and analyses play a vital role in all walks of life and benefit society. For example, medicine and biomedical sciences, business and commerce, industry, economics and finance, education and teaching, the law, government and politics, demography, psychology, sociology and sport all fall within its remit.
  - The journal's emphasis is on clearly written quantitative approaches to problems of current relevance rather than the exposition of technical detail. Of particular interest are papers on topical or contentious statistical issues that give reviews or exposés of current statistical concerns, and papers that contribute to our understanding of important substantive questions. Historical, professional, and biographical contributions are also published, as are discussions of methods of data collection and of ethical issues.
- ASA Discoveries
  - The ASA and Taylor & Francis are currently supporting a 100% APC discount for all authors.
  - ***ASA Discoveries*** is an open access journal for the dissemination of high-quality research and critical reviews across the interconnected domains of statistics, data

science, and artificial intelligence (AI). The journal publishes high-quality papers encompassing advances in both theory and practice, promoting statistical and machine learning methodologies, statistical computing, data visualization, data-driven insights, and AI innovations. The journal publishes on a rolling basis. As articles are published, they will be added immediately to the main annual volume and can thus immediately be cited.

- **Aims**
  - Innovative Theory and Methods:
    Publish original research articles that advance theoretical knowledge or present novel methodologies, algorithms, and models in statistics, data science, and AI.
  - Domain Applications:
    Encourage submissions that showcase applications of statistical techniques and AI methodologies in solving real-world problems or that highlight the impact of statistics, data science, and AI across domains, bridging theoretical advancements and real-world applications.
  - Open Access and Accessibility:
    Promote open access to scholarly articles, ensuring that research findings are freely available to the global scientific community and the public.
  - Ethical Considerations:
    Encourage authors to address ethical implications and be fair, transparent, and accountable in their research.
  - Educational Focus:
    Include review articles to support the continuous learning of researchers, practitioners, and students in statistics, data science, and AI.
  - Global Collaboration:
    Act as a hub for global collaboration by welcoming contributions from researchers and practitioners worldwide.

- [Spatial Statistics](#)
  - ***Spatial Statistics*** publishes articles on the theory and application of spatial and spatio-temporal statistics. It favours manuscripts that present theory generated by new applications, or in which new theory is applied to an important practical case. A purely theoretical study will only rarely be accepted. Pure case studies and algorithms without methodological development are not acceptable for publication.
  - ***Spatial Statistics*** concerns the quantitative analysis of spatial and spatio-temporal data, including their statistical dependencies, heterogeneity, accuracy and uncertainties. Methodology for spatial statistics is typically found in probability theory, stochastic modelling and mathematical statistics as well as in information and computer science. Spatial statistics is used in mapping, assessing spatial data quality, sampling design optimisation, modelling of spatial structures, and drawing of valid

inference and causality from a limited set of spatio-temporal data. Application fields include:

- The physical domains, e.g. environment, climate, agriculture, ecology, geosciences oceanography and remote sensing.
- The social/economic domains, e.g. epidemiology, population characteristics, and disease mapping.

- [Journal of Data Science](#)
  - Established in 2003, the *Journal of Data Science* aims to advance and promote data science methods, computing, and applications in all scientific fields where knowledge and insights are to be extracted from data. The journal publishes research works on the full spectrum of data science including statistics, computer science, and domain applications. The topics can be about any aspect of the life cycle (collecting, processing, analyzing, communicating, etc.) of data science projects from any field that involves understanding and making effective use of data. The emphasis is on applications, case studies, statistical methods, computational tools, and reviews of data science.
- [Journal of Nonparametric Statistics](#)
  - ***Journal of Nonparametric Statistics*** provides a medium for the publication of research and survey work in nonparametric statistics and related areas. The scope includes, but is not limited to the following topics:
    - Nonparametric modeling
    - Nonparametric function estimation
    - Rank and other robust and distribution-free procedures
    - Resampling methods
    - Lack-of-fit testing
    - Multivariate analysis
    - Inference with high-dimensional data
    - Dimension reduction and variable selection
    - Methods for errors in variables, missing, censored, and other incomplete data structures
    - Inference of stochastic processes
    - Sample surveys
    - Time series analysis
    - Longitudinal and functional data analysis
    - Nonparametric Bayes methods and decision procedures
    - Semiparametric models and procedures
    - Statistical methods for imaging and tomography
    - Statistical inverse problems

- Financial statistics and econometrics
- Bioinformatics and comparative genomics
- Statistical algorithms and machine learning.

- Both the theory and applications of nonparametric statistics are covered in the journal. Research applying nonparametric methods to medicine, engineering, technology, science and humanities is welcomed, provided the novelty and quality level are of the highest order.
- Authors are encouraged to submit supplementary technical arguments, computer code, data analysed in the paper or any additional information for online publication along with the published paper.

Theoretical/Methodology-focused Journals

- [Journal of the Royal Statistics Society (JRSS Series B)](#)
  - "The objective of papers should be to contribute to the understanding of statistical methodology and/or to develop and improve statistical methods; any mathematical theory should be directed towards these aims...Also considered are comparisons, critical evaluations and new applications of existing methods, ..., statistical computation or simulation where original methodology is involved and original contributions to the foundations of statistical science."
  - "A paper, even if correct and well presented, is likely to be rejected if it only presents straightforward special cases of previously published work, if it is of mathematical interest only, if it is too long in relation to the importance of the new material that it contains or if **it is dominated by computations or simulations of a routine nature.**"
- [Journal of Multivariate Analysis](#)
  - The journal welcomes contributions to all aspects of multivariate data analysis and modeling, including cluster analysis, discriminant analysis, factor analysis, and multidimensional continuous or discrete distribution theory.
  - Papers making substantial contributions to regression or time series analysis for multidimensional response variables are also invited. Submissions dealing with univariate models, including regression models with a single response variable and univariate time series models, are deemed to fall outside the journal's remit.
- [Journal of Statistical Planning and Inference](#)
  - The *Journal of Statistical Planning and Inference* offers itself as a multifaceted and all-inclusive bridge between classical aspects of **statistics** and **probability**, and the emerging interdisciplinary aspects that have a potential of revolutionizing the subject. While we maintain our traditional strength in **statistical inference**, design, classical probability, and large sample methods, we also have a far more inclusive and broadened scope to keep up with the new problems that confront us as statisticians,

mathematicians, and scientists, such as clustering, post model selection inference, deep learning and random networks

- [Annals of Statistics](#)
  - "Primary emphasis is placed on importance and originality, not on formalism. The journal aims to cover all areas of statistics, especially mathematical statistics and applied & interdisciplinary statistics."
- [Biometrika](#)
  - There are no restrictions on the area of statistics considered by *Biometrika*. The three primary criteria by which all papers are judged are:
    1. importance of the work to the understanding, practice or potential practice of statistics;
    2. the degree of conceptual novelty and insight;
    3. the conciseness and clarity with which the ideas are conveyed.
  - The novelty may take many forms, including: the development of new methodology accompanied by an insightful analysis; papers where the innovation is around computational efficiency, where this is important for the application of the statistical method; a penetrating exposition of anomalous or unforeseen behaviour of mainstream inferential tools; original formulations uncovering foundational structure with potential relevance to statistical practice. Papers concerned purely with sampling properties of existing procedures or minor developments thereof are typically unsuitable unless such properties reveal considerable structural understanding. We do not publish purely applied work.
  - *Biometrika* publishes three types of paper: regular papers, synthesis papers (both normally fewer than 20 pages) and miscellanea articles (max. 8 pages). Miscellanea papers are not expected to have the breadth of contribution of regular papers but need to meet the same standards in terms of importance of the work, novelty of the insights, and general quality. Synthesis papers should either open up an emerging area outside of statistics to a statistical audience, assuming that area will be important to statistics, or be a synthesis of two or more areas of statistics that brings fundamental new insight.

Applied Journals

- [Sankhya B](#)
  - **Sankhya, Series B**, primarily covers applied and interdisciplinary statistics including data sciences. Applied articles should preferably include analysis of original data of broad interest, novel applications of methodology and development of methods and techniques of immediate practical use. The Journal also welcomes submissions that expose potential applications to finance, insurance, economics, biology, physics, and

general engineering & technology. Authoritative reviews and comprehensive discussion articles in areas of vigorous current research are also welcome.

- [Journal of Applied Statistics](#)
  - ***Journal of Applied Statistics*** is a world-leading journal which provides a forum for communication among statisticians and practitioners for judicious application of statistical principles and innovations of statistical methodology motivated by current and important real-world examples across a wide range of disciplines
  - The editorial policy is to publish rigorous, clear and accessible papers on methods developed for real-life statistical problems, and which are anticipated to have a broad scientific impact. Purely theoretical papers are avoided but those on theoretical developments which clearly exhibit concrete applied potential may be considered. Papers demonstrating creative development of statistical techniques based on a true challenge in a subject area are strongly encouraged. The Journal publishes original research papers, review articles, and short application notes.
  - In general, **original research papers** should present one or two challenges in an area, include relevant data, provide a novel method to solve challenges, and demonstrate that the proposed method has answered questions that were not properly or optimally addressed before by relevant existing methods.
- [Journal of Agricultural, Biological, and Environmental Statistics (JABES)](#)
  - "papers that **introduce new statistical methods to solve practical problems in the agricultural sciences, the biological sciences (including biotechnology), and the environmental sciences** (including those dealing with natural resources)...The journal **does not normally publish papers that have a primary focus on human genetics, human health**, or medical statistics."
- [Annals of Applied Statistics](#)
  - "We hope to publish papers that have substantive applied origins and involve relevant datasets, while also being of interest beyond the specific application. Papers that include innovative methodology brought to bear on scientific/policy questions and relevant data are especially welcome. Typically, a paper will be framed around one or more unresolved applied problems, where data are introduced to help address them. Data analyses should go well beyond numerical illustrations of calculations of proposed new methodology, with particular emphasis put on comparative analyses and substantive findings."
- [Journal of the Royal Statistical Society: Series C (JRSS Series C)](#)
  - *Series C* seeks to publish papers that are tackling genuine problems in applied statistics, i.e. where applications are central to the paper and provide the motivation for the work presented. This usually implies that the specific application under study will also be mentioned in the title, and should figure prominently in abstract, introduction and discussion as well as in other parts of the paper. In essence, papers should

directly engage with the application and should clearly indicate what additional insights into the applied problem have been gained by applying the suggested methodology. This also implies that some technical details, derivations and proofs might not form part of the main body of the text, but might be moved into supplementary material.

- *Series C* papers make a novel contribution to statistics by adapting or developing new statistical methodology for a specific applied context, or by demonstrating the innovative combination of existing advanced statistical methods. JRSS-C also accepts papers on computational statistics, machine learning and data science, if they are engaging with an application as outlined above. Papers where the application merely serves as an illustration for new methodology or papers that use well-established statistical methods to analyze data are not suitable for JRSS-C. Similarly, papers that only contain brief numerical illustrations or focus exclusively on simulation studies are not suitable, although numerical illustrations and simulations may of course form part of a JRSS-C paper.

- In terms of application areas and methodologies, *Series C* tries to be as broad as possible and therefore covers the whole range of interdisciplinary fields where statistics is applied, including but being by no means limited to agriculture, biology, chemistry, ecology, economics, genetics, industry, medicine, physics, and social sciences.

- [Environmetrics](#)
  - *Environmetrics*, the official journal of The International Environmetrics Society (TIES), an Association of the [International Statistical Institute](#), is devoted to disseminating high-quality quantitative research in the environmental sciences. The journal welcomes pertinent and innovative submissions from quantitative disciplines developing new statistical models, methods, and theories that solve modern environmental problems. Articles must proffer substantive statistical advances to answer important scientific questions in the environmental sciences, or must develop novel or enhanced statistical methodology with clear applications to environmental science. New methods should be illustrated with recent environmental data.

Software and Computation Journals

- [Journal of Computational and Graphical Statistics](#)
  - The **Journal of Computational and Graphical Statistics** (**JCGS**) presents the very latest techniques on improving and extending the use of computational and graphical methods in statistics and data analysis. Established in 1992, this journal contains cutting-edge research, data, surveys, and more on numerical graphical displays and methods, and perception. Articles are written for readers who have a strong background in statistics but are not necessarily experts in computing. Published in March, June, September, and December.

- Journal of Statistical Computation and Simulation
  - **Journal of Statistical Computation and Simulation** (JSCS) publishes significant and original work in areas of statistics which are related to or dependent upon computation or simulation. Fields covered include computer algorithms related to statistics, studies in statistical inference by means of simulation techniques, and implementation of interactive statistical systems.
  - JSCS does not consider applications of statistics to other fields, except as illustrations of the use of the original statistics presented.
- The R Journal
  - The R Journal is the peer-reviewed, open-access scientific journal, published by The R Foundation. It features short to medium length articles (up to 20 pages) covering topics of interest to users and developers of R. For example, description and implementation details of R packages, surveys or reviews of R software related to a particular area, applications of R software or descriptions of teaching resources related to R.
- Journal of Statistical Software
  - Our mission statement covers the *scope* of our journal and the *type of papers* we aim to publish. We kindly ask you to read trough this section to ensure your work fits our scope. The mission statement also shows how to prepare the *code* published alongside with the manuscript and our *copyright and costs* policy.
  - In the information for authors you can find all the important information on how to prepare your work before submitting to our journal. This includes general *requirements*, instructions on *software preparation* and *manuscript preparation* and a link to a step-by-step guide for the *online submission*. The page also shows how the *review process* and *publishing process* is handled after the initial submission.
- Computational Statistics & Data Analysis
  - The Official Journal of the Network Computational and Methodological Statistics (CMStatistics) and the International Association of Statistical Computing (IASC)
  - **Computational Statistics and Data Analysis** (CSDA), an Official Publication of the network Computational and Methodological Statistics (CMStatistics) and of the International Association for Statistical Computing (IASC), is an international journal dedicated to the dissemination of methodological research and applications in the areas of **computational statistics** and **data analysis**. The journal consists of four refereed sections which are divided into the following subject areas:
  - **I) Computational Statistics** - Manuscripts dealing with:
    1. the explicit impact of computers on statistical methodology (e.g., Bayesian computing, bioinformatics, computer graphics, computer intensive inferential methods, data exploration, data mining, expert systems, heuristics, knowledge based systems, machine learning, neural networks, numerical and optimization methods, parallel computing, statistical databases, statistical systems),

2. the development, evaluation and validation of statistical software and algorithms. Software and algorithms can be submitted with manuscripts and will be stored together with the online article.

- **II) Statistical Methodology for Data Analysis** - Manuscripts dealing with:
  1. novel and original data analytical strategies and methodologies applied in biostatistics (design and analytic methods for clinical trials, epidemiological studies, statistical genetics, or genetic/environmental interactions), chemometrics, classification, data exploration, density estimation, design of experiments, environmetrics, education, image analysis, marketing, model free data exploration, pattern recognition, psychometrics, statistical physics, image processing, robust procedures.
  2. **Statistical methodology** includes, but not limited to: bootstrapping, classification techniques, clinical trials, data exploration, density estimation, design of experiments, pattern recognition/image analysis, parametric and nonparametric methods, statistical genetics, Bayesian modeling, outlier detection, robust procedures, cross-validation, functional data, fuzzy statistical analysis, mixture models, model selection and assessment, nonlinear models, partial least squares, latent variable models, structural equation models, supervised learning, signal extraction and filtering, time-series modelling, longitudinal analysis, multilevel analysis and quality control.

- **III) Special Applications** - Manuscripts at the interface of statistics and computing (e.g., comparison of statistical methodologies, computer-assisted instruction for statistics, simulation experiments). Advanced statistical analysis with real applications (social sciences, marketing, psychometrics, chemometrics, signal processing, medical statistics, environmentrics, statistical physics).

- **IV) Statistical Data Science** - The manuscripts concern with well-founded theoretical and applied data-driven research, with a significant computational or statistical methodological component for data analytics. Emphasis is given to comprehensive and reproducible research, including data-driven methodology, algorithms and software. This journal section serves as a complementary component to the network Computational and Methodological Statistics (CMStatistics).

Biostatistics Journals

- Biometrics
  - Published on behalf of the International Biometric Society, *Biometrics* emphasizes the role of statistics and mathematics in the biosciences. Its objectives are to promote and extend the use of statistical and mathematical methods in the principal disciplines of biosciences by reporting on the development and application of these methods. A centerpiece of most *Biometrics* articles is scientific application that sets scientific or

policy objectives, motivates methods development, and demonstrates the operations of new methods.

- Papers in the journal appear in one of four sections. The Biometric Methodology section presents papers that focus on the development of new methods and results of use in the biosciences. The Biometric Practice section contains papers involving innovative applications of methods and providing practical contributions and guidance, biological insight, and/or significant new findings. Neutral comparisons (guideline manuscripts) will be considered. Reader Reaction papers refer directly to articles previously published in the journal, and Letters to the Editors provide comments and suggestions on the journal and its content. The Book Review section intends to offer timely reviews of newly published books, including statisticians and people from other disciplines, who are interested in theoretical and methodological development and evolution in Biometrics.

- Biometrical Journal
  - *Biometrical Journal* publishes papers on statistical methods and their applications in life sciences including medicine, environmental sciences and agriculture. Methodological developments should be motivated by an interesting and relevant problem from these areas. Ideally the manuscript should include a description of the problem and a section detailing the application of the new methodology to the problem. Case studies, review articles and letters to the editors are also welcome. Papers containing only extensive mathematical theory are not suitable for publication in *Biometrical Journal*.

- Biostatistics
  - "*Biostatistics* is an online only journal publishing papers that develop innovative statistical methods with applications to the understanding of human health and disease, including basic biomedical sciences. Papers should focus on methods and applications. Introduction of original methodology should be grounded in substantive problems"
  - Should satisfy one of:
    - **development of new stochastic models or statistical methodology clearly motivated by a substantive problem in health or biomedical sciences;**
    - innovative application of statistical methodology to address a substantive problem in health or biomedical sciences;

- BMC Medical Research Methodology
  - *BMC Medical Research Methodology* is an open access journal publishing original peer-reviewed research articles in methodological approaches to healthcare research. Articles on the methodology of epidemiological research, clinical trials and meta-analysis/systematic review are particularly encouraged, as are empirical studies of the associations between choice of methodology and study outcomes. *BMC Medical*

> *Research Methodology* does not aim to publish articles describing scientific methods or techniques: these should be directed to the BMC journal covering the relevant biomedical subject area.

- [Computational Statistics and Data Analysis](#)
  - *Computational Statistics and Data Analysis (CSDA)*, an Official Publication of the network Computational and Methodological Statistics (CMStatistics) and of the International Association for Statistical Computing (IASC), is an international journal dedicated to the dissemination of methodological research and applications in the areas of **computational statistics** and **data analysis**. The journal consists of four refereed sections which are divided into the following subject areas:
    - critical review of an area of statistical methodology relevant to health or biomedical science applications, with a focus on practical utility;
    - case studies based on important health or biomedical sciences data.
- [Statistics in Medicine](#)
  - The journal aims to influence practice in medicine and its associated sciences through the publication of papers on statistical and other quantitative methods. Papers will explain new methods and demonstrate their application, preferably through a substantive, real, motivating example or a comprehensive evaluation based on an illustrative example. Alternatively, papers will report on case-studies where creative use or technical generalizations of established methodology is directed towards a substantive application. Reviews of, and tutorials on, general topics relevant to the application of statistics to medicine will also be published. The main criteria for publication are appropriateness of the statistical methods to a particular medical problem and clarity of exposition. Papers with primarily mathematical content will be excluded. The journal aims to enhance communication between statisticians, clinicians and medical researchers.
- [Bioinformatics](#)
  - The leading journal in its field, *Bioinformatics* publishes the highest quality scientific papers and review articles of interest to academic and industrial researchers. Its main focus is on new developments in genome bioinformatics and computational biology. One distinct section within the journal - *Application Notes* - focuses on shorter papers exploring the applications used for experiments.
- [BMC Bioinformatics](#)
  - *BMC Bioinformatics* is an open access, peer-reviewed journal that considers articles describing novel computational algorithms and software, models and tools, including statistical methods, machine learning and artificial intelligence, as well as systems biology.
- [Statistical Methods in Medical Research](#)

- *Statistical Methods in Medical Research* is a highly ranked, peer reviewed scholarly journal and is the leading vehicle for articles in all the main areas of medical statistics and therefore an essential reference for all medical statisticians. It is particularly useful for medical researchers dealing with data and provides a key resource for medical and statistical libraries, as well as pharmaceutical companies.
  - This unique journal is devoted solely to statistics and medicine and aims to keep professionals abreast of the many powerful statistical methods now available to the medical profession. As new methods are constantly adopted by statisticians working both inside and outside the medical environment, this review journal aims to satisfy the increasing demand for accurate and up-to-the-minute information.
- Health Services and Outcomes Research Methodology
  - *Health Services and Outcomes Research Methodology* publishes: Research papers on quantitative, qualitative, and mixed methods; Case Studies describing applications of quantitative and qualitative methodology in health services and outcomes research; Review Articles synthesizing and popularizing methodologic developments; Tutorials; Articles on computational issues and software reviews; Book reviews; and Notices. Special issues will be devoted to papers presented at important workshops and conferences.

Clinical Trial

- Clinical Trials
  - The journal is devoted to topics of generalizable interest to the clinical trials community in general and to clinical trials methodology in particular. Topics that fall within the Aims and Scope of *Clinical Trials* include data management, trial logistics, design and conduct of trials, statistical methods, impact of trials on practice and policy, ethics, law and regulation, synthesis and evidence evaluation, history, education and training, patient-related issues, decision analysis, and commentaries on current or controversial issues.
  - The journal does **not** publish articles that essentially reproduce the protocol for an individual clinical trial. Articles that simply report the results of a completed clinical trial are also not considered.
- Trials
  - *Trials* encompasses all aspects of the performance and findings of randomized controlled trials in human health. We publish articles on general trial methodology and research into trial processes, as well as study protocols and statistical analysis plans for randomised controlled trials, commentaries and traditional results papers - regardless of outcome or significance of findings.
  - Our aim is to promote transparency in the reporting of randomised trials and build an evidence base that will help inform the design and reporting of future trials. Within this

remit, we consider articles or study protocols assessing aspects of the design, conduct or reporting of trials, as well as assessment and evaluation of lessons learnt from past trials, including those that were prematurely ended. We advocate for the collective success for trials and the importance of linking publications together (the thread of evidence).

Epidemiology

- [Epidemiology](#)
    - **Epidemiology** publishes original research from all fields of epidemiology. The journal also welcomes review articles and meta-analyses, novel hypotheses, descriptions and applications of new methods, and discussions of research theory or public health policy. We give special consideration to papers from developing countries.
- [American Journal of Epidemiology](#)
    - The *American Journal of Epidemiology* is the oldest and one of the premier epidemiologic journals devoted to the publication of empirical research findings, opinion pieces, and methodological developments in the field of epidemiologic research.
    - It is a peer-reviewed journal aimed at both fellow epidemiologists and those who use epidemiologic data, including public health workers and clinicians.
- [International Journal of Epidemiology](https://academic.oup.com/ije)
    - *The International Journal of Epidemiology* is the journal of, and wholly owned by the [International Epidemiological Association](#), which appoints the IJE's Editor in Chief.
    - The *IJE* is an essential requirement for anyone who needs to keep up to date with epidemiological advances and new developments throughout the world.
    - It encourages communication among those engaged in the research, teaching, and application of epidemiology of both communicable and non-communicable disease, including research into health services and medical care.
    - Also covered are new methods, epidemiological and statistical, for the analysis of data used by those who practise social and preventive medicine. The *International Journal of Epidemiology* is published six times yearly.
- [Journal of Clinical Epidemiology](#)
    - The *Journal of Clinical Epidemiology* (JCE) aims to advance science that can improve health care decision-making and contribute to the evolving discipline of clinical epidemiology. The JCE publishes methods-focused articles across the spectrum of the research ecosystem, including primary research (qualitative, quantitative, and mixed); evidence syntheses; guidelines; and implementation science. The journal welcomes registered reports, protocols, and simulation studies that advance the journal's aims. The JCE is committed to promoting equity, diversity, and inclusion across all its

content, contributors, editorial board, and leadership. Priority is given to contributions from early and mid-career researchers and low- and middle-income countries.

- The journal publishes topics including:
  - Meta-science
  - Patient-oriented researc
  - Development, evaluation, and implementation of reporting guidelines
  - Research integrity and culture
  - Open science
  - Emerging methodologies
  - Developing and evaluating outcome measures
  - Education and learning programs for clinical epidemiologist
- The JCE does not accept the following submissions except in exceptional circumstances:
  - Bibliometric studies and those on infodemiology, social media trends, and health informatics
  - Papers written primarily for a statistical audience
  - Artificial intelligence and machine learning studies without critical evaluation of the method and transparent reporting
  - Meta-research studies that demonstrate weaknesses or limitations in the evidence ecosystem but lack reflection on how these might be addressed
  - Effectiveness studies, including Mendelian randomization studies and target trial emulations; systematic reviews; prevalence and incidence studies; prognostic or diagnostic research where the main focus is not on the methods
  - Studies limited to one country, jurisdiction, or clinical area with limited generalizability, such as: translating an outcome measure into a different language; a study focused on one clinical specialty; a Delphi/consensus-based study where all the authors are from one country; or a survey of participants from one setting or with a limited response rate
  - Studies with a single author where it was more appropriate for a multi-disciplinary team to conduct the research
  - Studies that do not include patient partners as members of the research team in circumstances where that would be considered essential
  - Animal studies
  - Pharmacovigilance and pharmacoepidemiology studies

Statistics & Data Science Education

- [Journal of Statistics and Data Science Education](#)

- The *Journal of Statistics and Data Science Education* (JSDSE) is an open access peer-reviewed journal published by the American Statistical Association. It disseminates accessible knowledge for the improvement of data science and statistics education at all levels, including: elementary, secondary, post-secondary, post-graduate, continuing, and workplace education. Although JSDSE is a journal of the American Statistical Association, submissions are welcome from educators, practitioners, and researchers around the world.
- Article types include, but are not limited to:
  - **Original Research Articles**:
    - Curricular reform
    - Innovative methods of instruction or assessment
    - Research (including case studies) on students' understanding of data science, statistics, and probability
    - Research on the teaching of statistics and data science and on attitudes and beliefs about statistics and data science
    - Creative and tested ideas (including experiments and demonstrations) for teaching statistics, data science, and probability
    - Articles that describe how students can develop data fluency and data acumen
    - Articles that describe how students learn computational techniques and workflows, undertake the entire data analysis cycle, and master a broader set of learning outcomes
    - Articles that help bridge the gap between traditional statistics, computational science, and domain applications in data science
    - Use of active learning and student centered pedagogies (e.g., cooperative learning and projects, growth mindset)
    - Statistical and data literacy
    - Data ethics
    - Distance education and online learning
  - **Overviews and reflective essays**:
    - Scholarly overview of the literature on topics in statistics and data science education
    - Reflective essays by scholars with extensive experience in data science and statistics education
  - **Reviews of software, books, and teaching materials**:
    - Reviews of teaching materials must describe actual experiences using the materials
  - **Datasets and Stories**:

- Description of the pedagogical uses of multivariate dataset(s) (including discussions of achievable learning outcomes, potential pitfalls, helpful teaching tips), with the associated dataset(s) available for download with the manuscript for instructional use in classes and further analysis
  - **Research in K-12 Education**:
    - Research related to the teaching, learning, and assessment of statistics and data science in K-12 settings
  - **Statistics and Data Science Education in the Health Sciences**:
    - Teaching and learning of statistics and data science in the health sciences
    - Biostatistics and data science literacy, competency, applications, and assessment
    - Use of real world health data in the classroom
    - Biostatistics curriculum development and reform
  - **Brief Communications**:
    - Short articles (generally no more than six pages) that are particularly timely or relevant
    - Short articles with potential for immediate positive impact
    - Short articles that discuss a novel teaching method in statistics and data science education
  - **Special Issues and Review Articles**
    - Review articles in all of the above areas are welcome, as are proposals for special issues, which should be discussed with the Editor-in-Chief in the first instance.
- [Journal of Educational and Behavioral Statistics](#)
  - The *Journal of Educational and Behavioral Statistics* provides an outlet for papers that are original and useful to those applying statistical approaches to problems and issues in educational or behavioral research. Typical papers will present new methods of analysis. In addition, critical reviews of current practice, tutorial presentations of less well known methods, and novel applications of already-known methods will be published. Papers discussing statistical techniques without specific educational or behavioral interest will have lower priority.

Review and Commentary

- [Harvard Data Science Review](#)
  - As an open access platform of the Harvard Data Science Initiative, *Harvard Data Science Review* (*HDSR*) features **foundational thinking, research milestones, educational innovations, and major applications,** with a primary emphasis on reproducibility, replicability, and readability. We aim to publish content that helps define

and shape data science as a scientifically rigorous and globally impactful multidisciplinary field based on the principled and purposed production, processing, parsing, and analysis of data. By uniting the strengths of a premier research journal, a cutting-edge educational publication, and a popular magazine, *HDSR* provides a crossroads at which fundamental data science research and education intersect directly with societally-important applications from industry, governments, NGOs, and others. By disseminating inspiring, informative, and intriguing articles and media materials, *HDSR* aspires to be a global forum on **everything data science and data science for everyone.**

- *HDSR* prioritizes quality over quantity, with a primary emphasis on reproducibility, replicability, and readability; attracting readers via inspiring, informative, and intriguing articles; and authors via our multi-domain reader outreach platform, speedy review process, and flexibility in presentation styles. Creative presentations are especially encouraged. We leverage digital technologies and advances to emphasize multimedia dissemination, learning-oriented visualization, enhanced author-reader interactions, and a global presence. In particular, our editorial board, authors, and external referees are drawn globally with the intention to progressively increase coverage and diversity. **Submissions are by invitation only** after a screening process. *HDSR*'s publications will be in a variety of forms, including research articles, discussion papers, special columns, interviews, conversations, tutorials, short essays, personal stories, and letters to the editor. *HDSR* publishes quarterly in digital forms, and also in print for special issues and collections.

- [Statistical Science](#)
  - The central purpose of *Statistical Science* is to convey the richness, breadth and unity of the field by presenting the full range of contemporary statistical thought at a moderate technical level, accessible to the wide community of practitioners, researchers and students of statistics and probability. It complements the main scientific journals of the IMS (the four series of the Annals) by coordinating, integrating and explicating important current statistical research. In line with this goal, the journal will publish reviews of influential new methodological and theoretical topics, articles describing substantive areas of scientific research with promising statistical applications, interviews with distinguished statisticians and probabilists, and articles on the history of statistics and probability.

- [The American Statistician](#)
- [Statistical Science](#)
  - The central purpose of *Statistical Science* is to convey the richness, breadth and unity of the field by presenting the full range of contemporary statistical thought at a moderate technical level, accessible to the wide community of practitioners, researchers and students of statistics and probability.

1. A paper that follows the usual theory and methods format and focuses on publishing a slew of new results is not suitable for STS. In particular, papers that have previously been submitted to such journals and have been rejected should not be resubmitted to STS directly, since such papers are likely to be quickly rejected. Similarly, papers that primarily deal with case studies are also not suitable for Statistical Science.
2. While a core purpose of Statistical Science is reviews of statistical areas of interest, the journal does allow technical results (and often publishes such) provided they are placed in a larger review context.

- We understand that there might be papers that fall in a grey zone between (a) and (b), in which case, it is the prerogative of the editor and the review team to make a call as to how to proceed.

Discontinued

- Statistical Methodology
  - Discontinued